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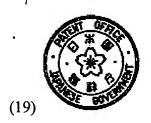
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(72) Inventor: NISHIBE HARUHITO

IIO KOKI

(74) Representative:

(54) METHOD AND SYSTEM FOR FABRICATING SEMICONDUCTOR DEVICE

(57) Abstract:

PURPOSE: To realize continuous deposition in a same chamber by forming a first tungsten film on an insulation layer through reduction of diborane and then forming a second tungsten film thereon through reduction of hydrogen or silane.

CONSTITUTION: A mixture gas of WF6 gas, B2H6 gas and H2 gas is fed into a chamber and a first tungsten film 14 is formed on an insulation layer 12 by CVD. In this regard, the WF6 gas is principally reduced by the B2H6 gas thus forming an adhesion layer 14. Subsequently, supply of the B2H6 gas is stopped and the mixture gas of WF6 gas and H2 gas is fed into a chamber and a conductive layer 15 of second tungsten is formed by CVD. In this regard, the WF6 gas is

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reduced by the H2 gas thus forming the layer 15. Since the deposition can be carried out continuously in same chamber by simply switching the reaction gas, throughput can be enhanced.

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